In the claims:

Following is a complete set of claims as amended with this Response.

1. (Currently Amended) A method comprising:

receiving an incoming call at a voice mail port of a voice mail system from a connected private telephone switch, the telephone switch being coupled between the PSTN (Public Switched Telephone Network) and a plurality of individual subscriber telephones, the incoming call coming to the switch through the PSTN, the voice mail system having greeting and message storage for at least some of the plurality of individual subscriber telephones, the incoming call being directed to one of the plurality of individual subscriber telephones;

receiving a call handle associated with the incoming call at the voice mail system from the telephone switch;

receiving an indication from the switch of whether the incoming call has been previously handled by the voice mail system;

applying the call handle to a database of the voice mail system to retrieve caller information stored in the voice mail system database that is associated with the call handle, if the <u>incoming</u> call has been previously handled by the voice mail system;

using the retrieved caller information at the voice mail system to handle the .

incoming call if caller information associated with the call handle is found; and

asking the caller to enter personal selections, if the incoming call has not been previously handled by the voice mail system.

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- 2. (Previously Presented) The method of claim 1, wherein receiving a call handle comprises receiving a tone sequence at a port of the voice mail system, decoding the tone sequence, and deriving the call handle from the decoded tone sequence.
- 3. (Previously Presented) The method of claim 2, wherein the tone sequence is a DTMF tone sequence transmitted to the port over the same transmission line as the incoming call.
- 4. (Original) The method of claim 1, wherein receiving a call handle comprises receiving a call handle message through a digital interface.
- (Previously Presented) The method of claim 4, wherein the digital interface comprises a digital backplane connection to a switch from which the incoming call was received.
- 6. (Previously Presented) The method of claim 1, further comprising requesting data from the caller and storing received data in association with the call handle.
- 7. (Original) The method of claim 1, wherein using the retrieved caller information comprises providing audio information in a language previously selected by the caller.
- 8. (Currently Amended) The method of claim 1, if no caller information associated with the call handle is found, further comprising:

requesting caller information from the caller;

storing received caller information in association with the call handle; and

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using the received caller information to handle the incoming call.

- 9. (Currently Amended) The method of claim 1, wherein receiving an indication of whether the incoming call has been previously handled comprises receiving an indication of whether the incoming call has been forwarded from one of the plurality of individual subscriber telephones.
- 10. (Currently Amended) The method of claim 9, if the <u>incoming</u> call has not been previously handled by the voice mail system, further comprising:

requesting caller information from the caller;

storing received caller information in association with the call handle; and using the received caller information to handle the incoming call.

11. (Currently Amended) A machine-readable medium having stored thereon data representing instructions which, when executed by a machine, cause the machine to perform operations comprising:

receiving an incoming call at a voice mail port of a voice mail system from a connected private telephone switch, the telephone switch being coupled between the PSTN (Public Switched Telephone Network) and a plurality of individual subscriber telephones, the incoming call coming to the switch through the PSTN, the voice mail system having greeting and message storage for at least some of the plurality of individual subscriber telephones, the incoming call being directed to one of the plurality of individual subscriber telephones;

receiving a call handle associated with the incoming call at the voice mail system from the telephone switch;

receiving an indication from the switch of whether the incoming call has been previously handled by the voice mail system;

applying the call handle to a database of the voice mail system to retrieve caller information stored in the voice mail system database that is associated with the call handle, if the <u>incoming</u> call has been previously handled by the voice mail system;

using the retrieved caller information at the voice mail system to handle the incoming call if caller information associated with the call handle is found; and

asking the caller to enter personal selections, if the <u>incoming</u> call has not been previously handled by the voice mail system..

12. (Currently Amended) The medium of claim 11, wherein if no caller information associated with the call handle is found, the instructions, when executed by the machine, cause the machine to perform further operations comprising:

requesting caller information from the caller;

storing received caller information in association with the call handle; and using the received caller information to handle the <u>incoming</u> call.

13. (Currently Amended) The medium of claim 11, wherein if the incoming call has not been previously handled by the voice mail system, the instructions, when executed by the machine, cause the machine to perform further operations comprising:

requesting caller information from the caller;

storing received caller information in association with the call handle; and using the received caller information to handle the incoming call.

14. (Currently Amended) An apparatus comprising:

a voice mail port to receive an incoming call from a connected private telephone switch, the telephone switch being coupled between the PSTN and a plurality of individual subscriber telephones, the incoming call coming to the switch through the PSTN (Public Switched Telephone Network), the voice mail system having greeting and message storage for at least some of the plurality of individual subscriber telephones, the incoming call being directed to one of the plurality of individual subscriber telephones;;

a voice mail port to receive a call handle associated with the incoming call from the telephone switch and an indication from the switch of whether the incoming call has been previously handled by the voice mail system;

a memory containing caller information associated with call handles; and

a processor to apply the call handle to the memory to retrieve caller information that is associated with the call handle and use the retrieved caller information to handle the incoming call if the incoming call has been previously handled by the voice mail system and to ask the caller to enter personal selections, if the incoming call has not been previously handled by the voice mail system.

- 15. (Previously Presented) The apparatus of claim 14, wherein the voice mail system port to receive the call handle comprises a digital interface.
- 16. (Currently Amended) The apparatus of claim 15, wherein the digital interface comprises a digital backplane connection to the switch a switch from which the incoming call was received.

17. (Currently Amended) A method comprising:

receiving an incoming call at a private telephone switch through the PSTN (Public Switched Telephone Network), the incoming call being directed to one of a plurality of individual subscriber telephones that are coupled to the switch;

generating a call handle for the incoming call at the telephone switch;

routing the incoming call to a port of a connected call handling system, the call handling system having greeting and message storage for at least some of the plurality of individual subscriber telephones;

sending the call handle to the call handling system in association with the routed incoming call;

sending an indication to the call handling system of whether the <u>routed incoming</u> call has been previously handled by the voice mail system in association with the routed <u>incoming</u> call

- 18. (Previously Presented) The method of claim 17, wherein sending the call handle comprises deriving a tone sequence for the identification, coding the tone sequence into tones and sending the tone sequence as a set of in-band signaling tones to the call handling system port.
- 19. (Previously Presented) The method of claim 18, wherein the tone sequence is a DTMF tone sequence transmitted to the call handling system port over the same transmission line as the incoming call.
- 20. (Original) The method of claim 17, wherein sending the call handle comprises sending an identification message through a digital interface.

- 21. (Previously Presented) The method of claim 20, wherein the digital interface comprises a digital backplane connection to the call handling system.
- 22. (Currently Amended) A machine-readable medium having stored thereon data representing instructions which, when executed by a machine, cause the machine to perform operations comprising:

receiving an incoming call at a private telephone switch through the PSTN (Public Switched Telephone Network), the incoming call being directed to one of a plurality of individual subscriber telephones coupled to the switch;

generating a call handle for the incoming call at the telephone switch;

routing the incoming call to a port of a connected call handling system, the call handling system having greeting and message storage for at least some of the plurality of individual subscriber telephones;

sending the call handle to the call handling system in association with the routed incoming call;

sending an indication to the call handling system of whether the <u>routed incoming</u> call has been previously handled by the voice mail system in association with the routed <u>incoming</u> call; and.

23. (Previously Presented) The medium of claim 22, wherein the instructions for sending the call handle comprise instructions which, when executed by the machine, cause the machine to perform further operations comprising sending an identification message through a digital interface.

- 24. (Original) The medium of claim 23, wherein the digital interface comprises a digital backplane connection to the call handling system.
 - 25. (Currently Amended) An apparatus comprising:

a port to receive an incoming call at a private telephone switch through the PSTN

(Public Switched Telephone Network), the incoming call being directed to one of a plurality of individual subscriber telephone that are coupled to the switch;

a call handle generator to generate a call handle for the incoming call at the telephone switch;

a switching network to route the incoming call from the receiving port to a port of a connected call handling system, the call handling system having greeting and message storage for at least some of the plurality of individual subscriber telephones; and

an interface to send the generated call handle and an indication of whether the incoming call has been previously handled by the call handling system to the port of the call handling system in association with the routed incoming call.

- 26. (Original) The apparatus of claim 25, wherein the interface comprises a digital interface.
- 27. (Original) The apparatus of claim 26, wherein the digital interface comprises a digital backplane connection to the call handling system.
- 28. (Currently Amended) The method of claim 1, further comprising releasing the incoming call to the switch and, after a sufficient time, deleting caller information associated with the call handle.

- 29. (Currently Amended) The medium of claim 11, wherein the instructions further comprise instructions which, when executed by the machine, cause the machine to perform further operations comprising releasing the <u>incomine</u> call to the switch and, after a sufficient time, deleting caller information associated with the call handle.
- 30. (Currently Amended) The method of claim 17, further comprising releasing the incoming call and, after a sufficient time, reusing the call handle for another call.
- 31. (Currently Amended) The medium of claim 22, further comprising releasing the incoming call and, after a sufficient time, reusing the call handle for another call.

32-35. (Canceled)

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